



UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY

**DRINKING
WATER**

Division of Drinking Water Funding Request 2021

Ying-Ying Macauley
Interim Director



Division of Drinking Water — Mission

Safeguard the quality and quantity of Utah's drinking water through balanced regulation



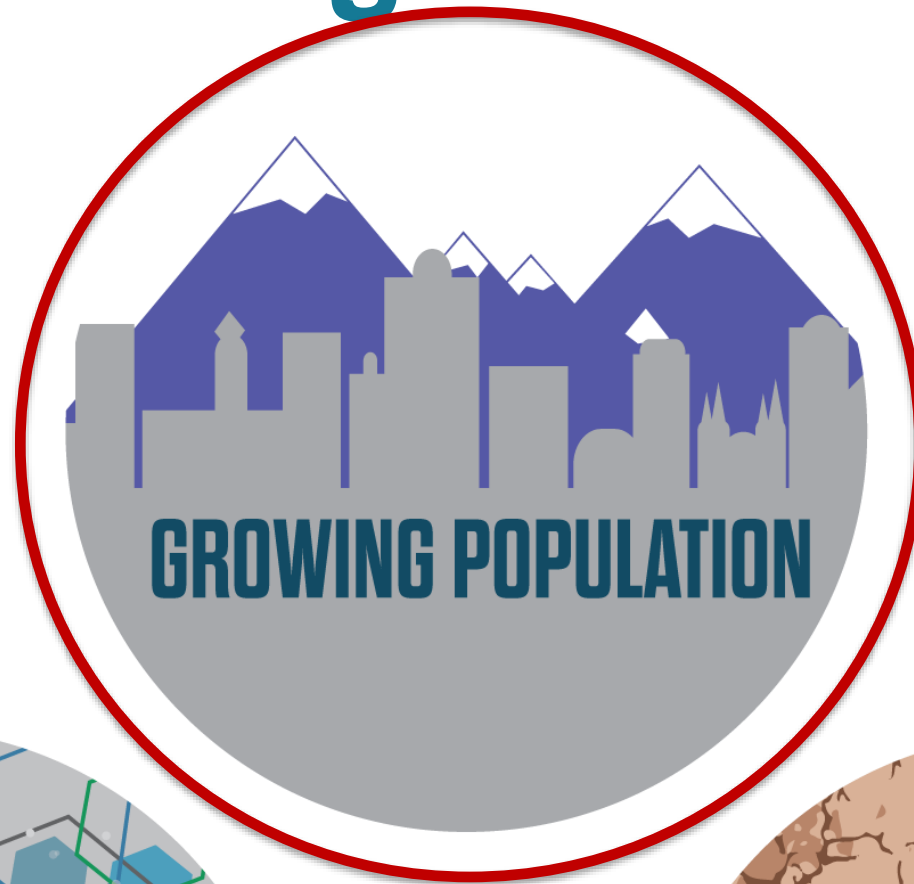
Division of Drinking Water — Core Functions

- Implement and Enforce the Safe Drinking Water Act
- Inspections and Sampling
- Training, Funding and Technical Assistances
- Engineering Reviews
- Coordination with Water Systems, Health Departments, State Agencies, EPA, Consultants, Drillers, etc.

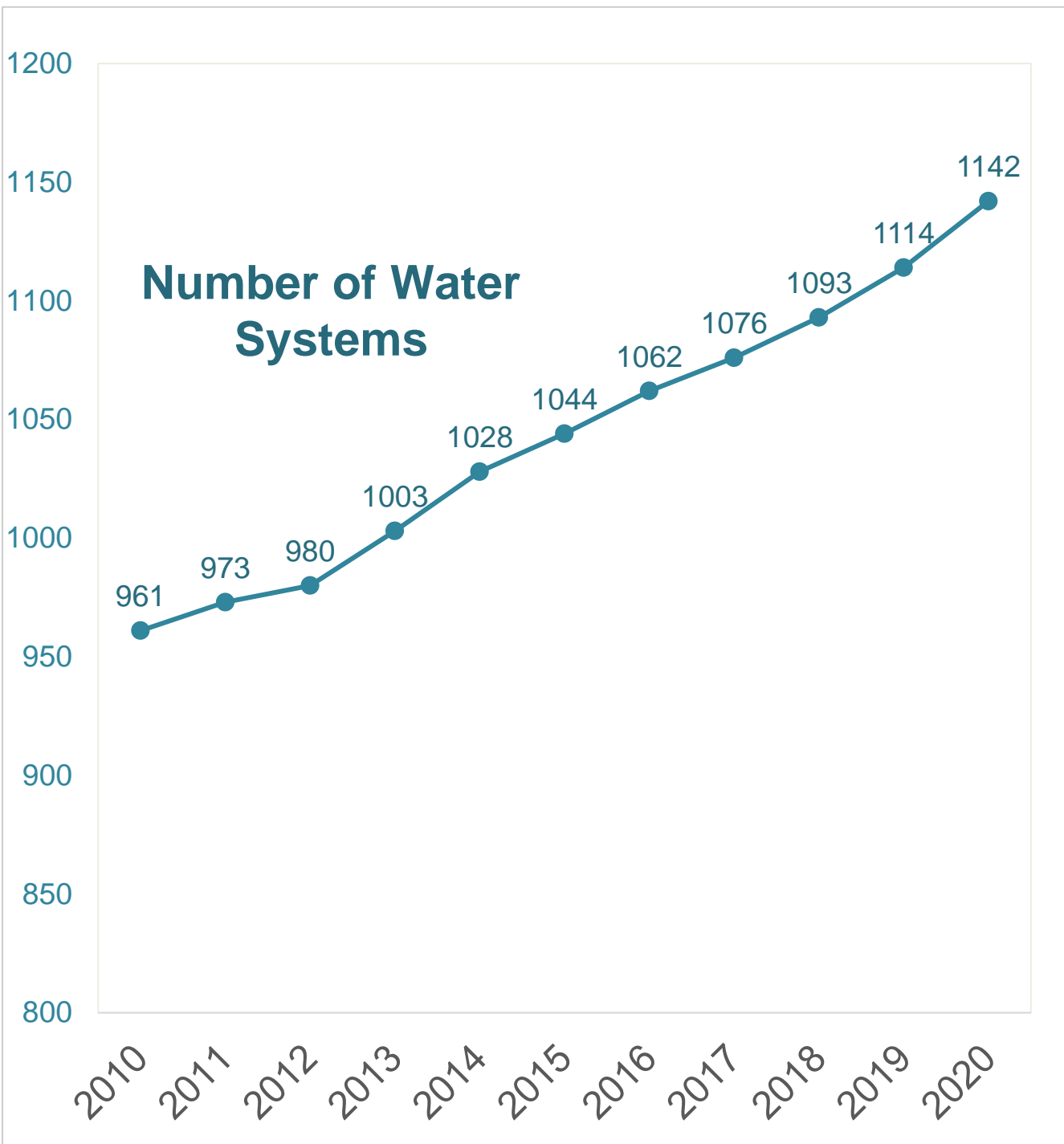
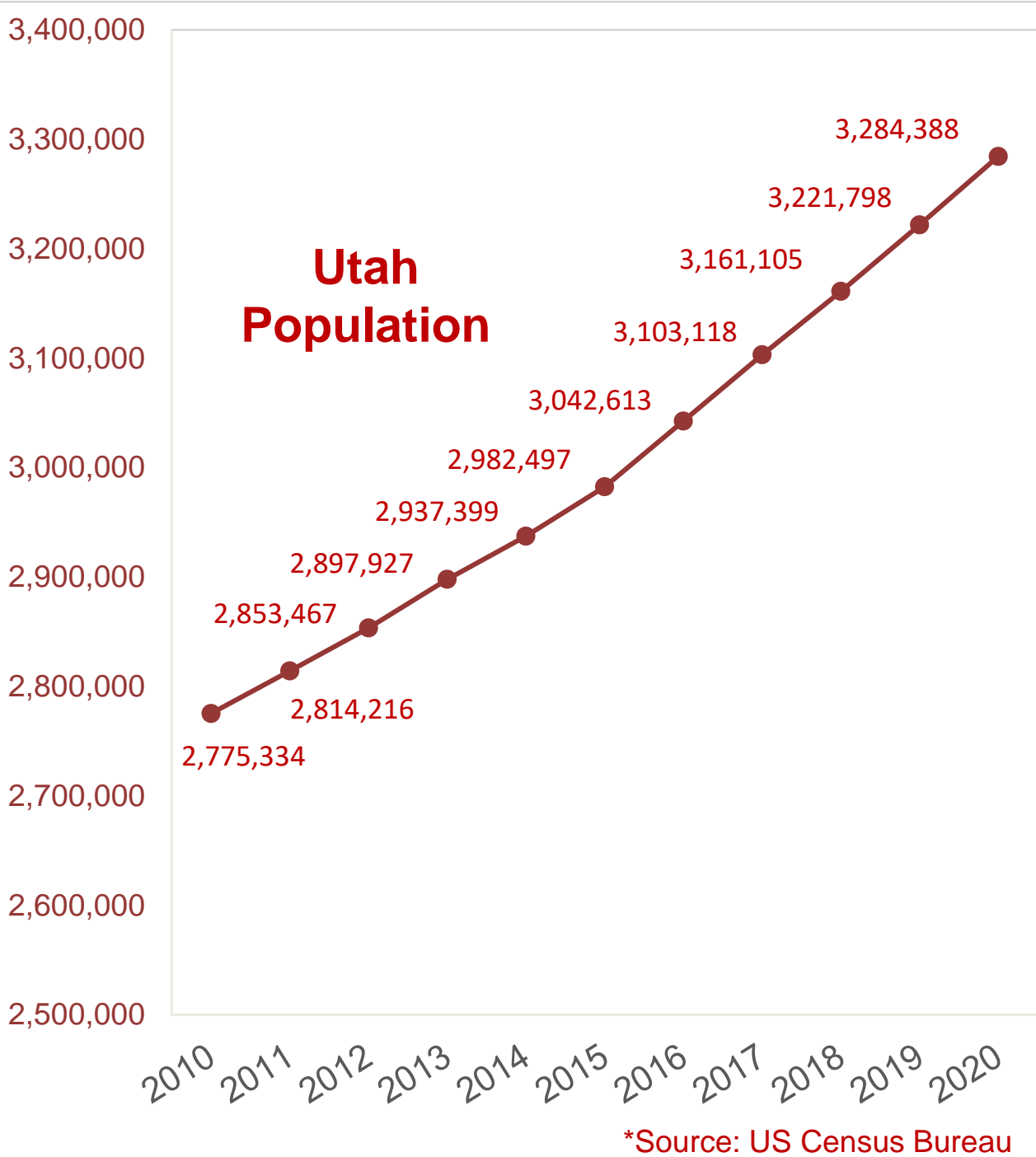


Jordan Valley Water Treatment Plant

What Are We Facing?



Utah Public Water Systems & Population Increase



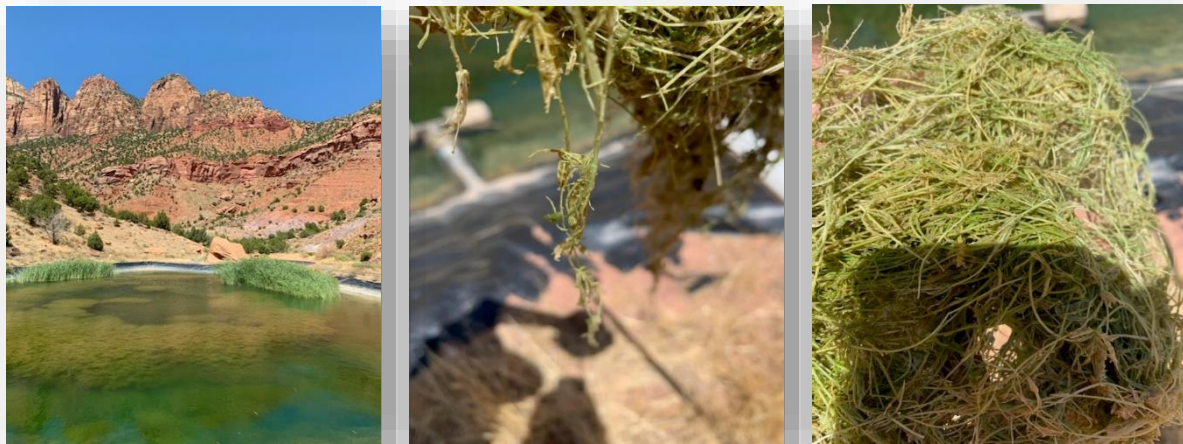
What Are We Facing?



Drinking Water Source Quality & Quantity

Drought & Wildfire Impacts

Virgin River Harmful Algal Bloom threatened Springdale City Drinking Water source



Springdale City drinking water holding pond – water is diverted from the Virgin River at base of Zion Canyon to this pond before treatment

Dollar Ridge Fire affecting Duchesne County Drinking Water



<https://kjzz.com/news/local/gallery/more-than-a-year-later-dollar-ridge-fire-affecting-duchesne-county-drinking-water>

Drinking Water Emergency Incidents

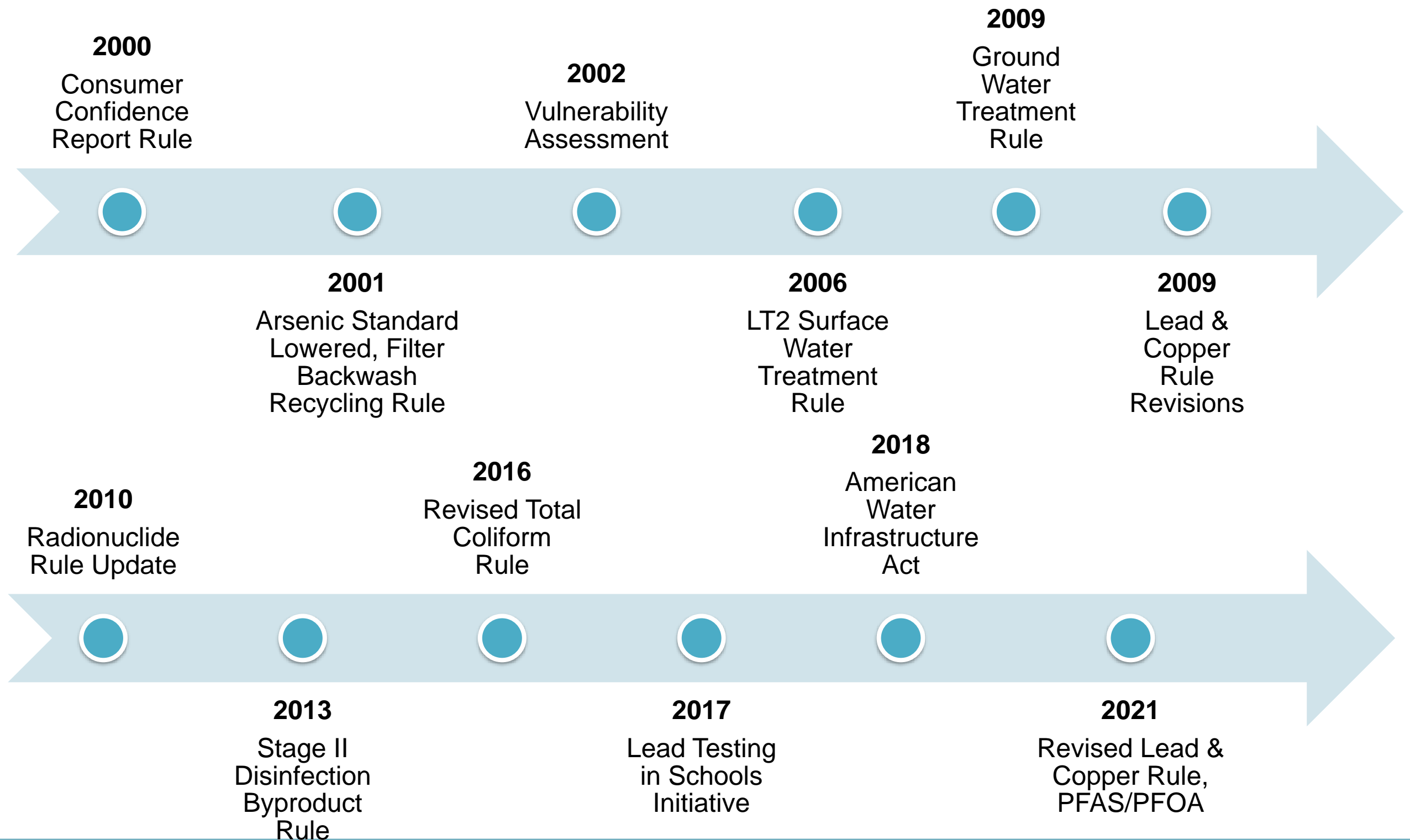
2019 - 2020

- Drinking Water Boil Orders – **93**
- Severe Operational Failures - **34**
- Water Tank Security Breach – **14**
- Chemical Spills - **17**
- Waterborne Pathogen and Legionella Cases - **32**
- Consumer Complaints, Natural Disasters and Contamination Incidents - **72**

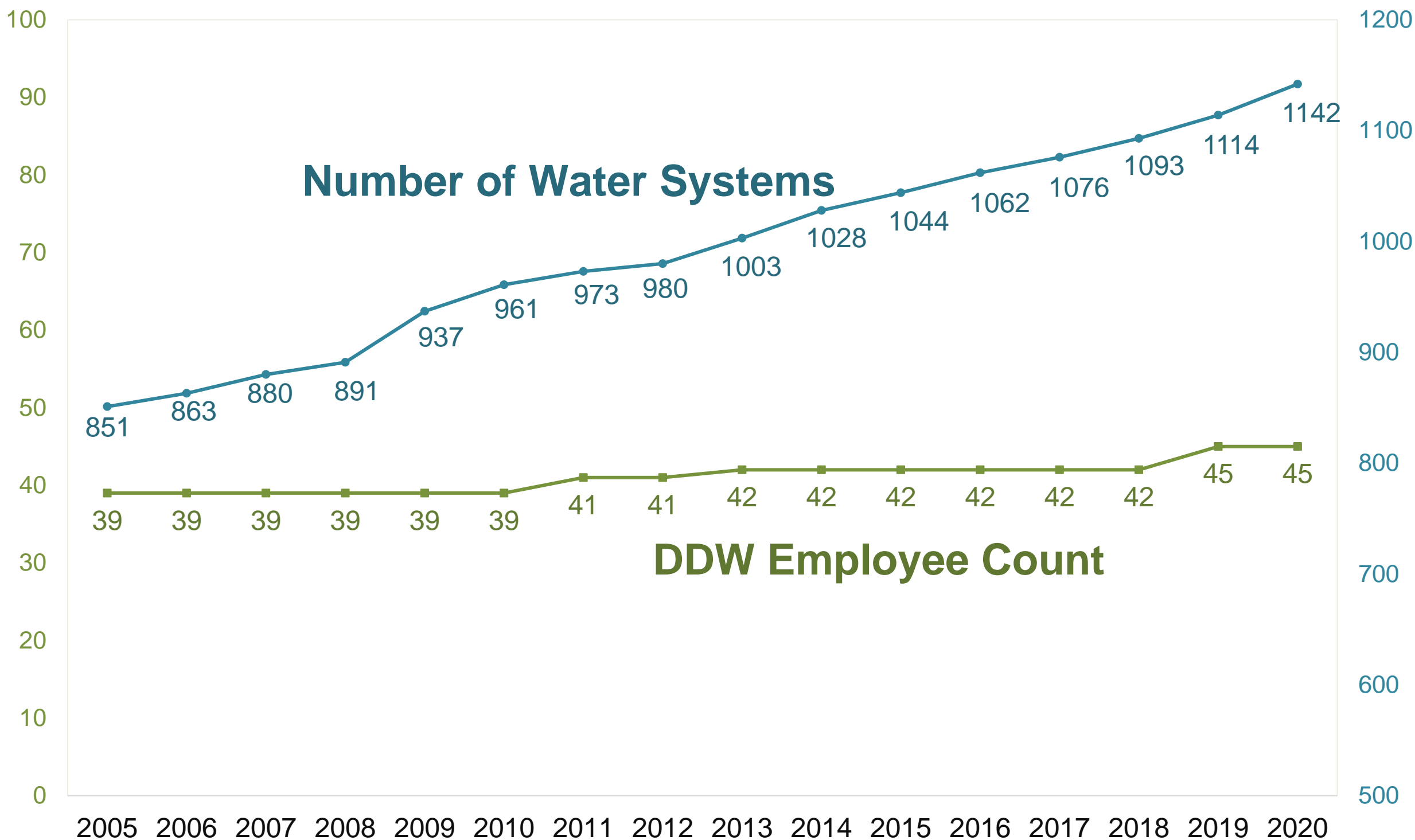


Price River Oil Spill contamination
July 2018

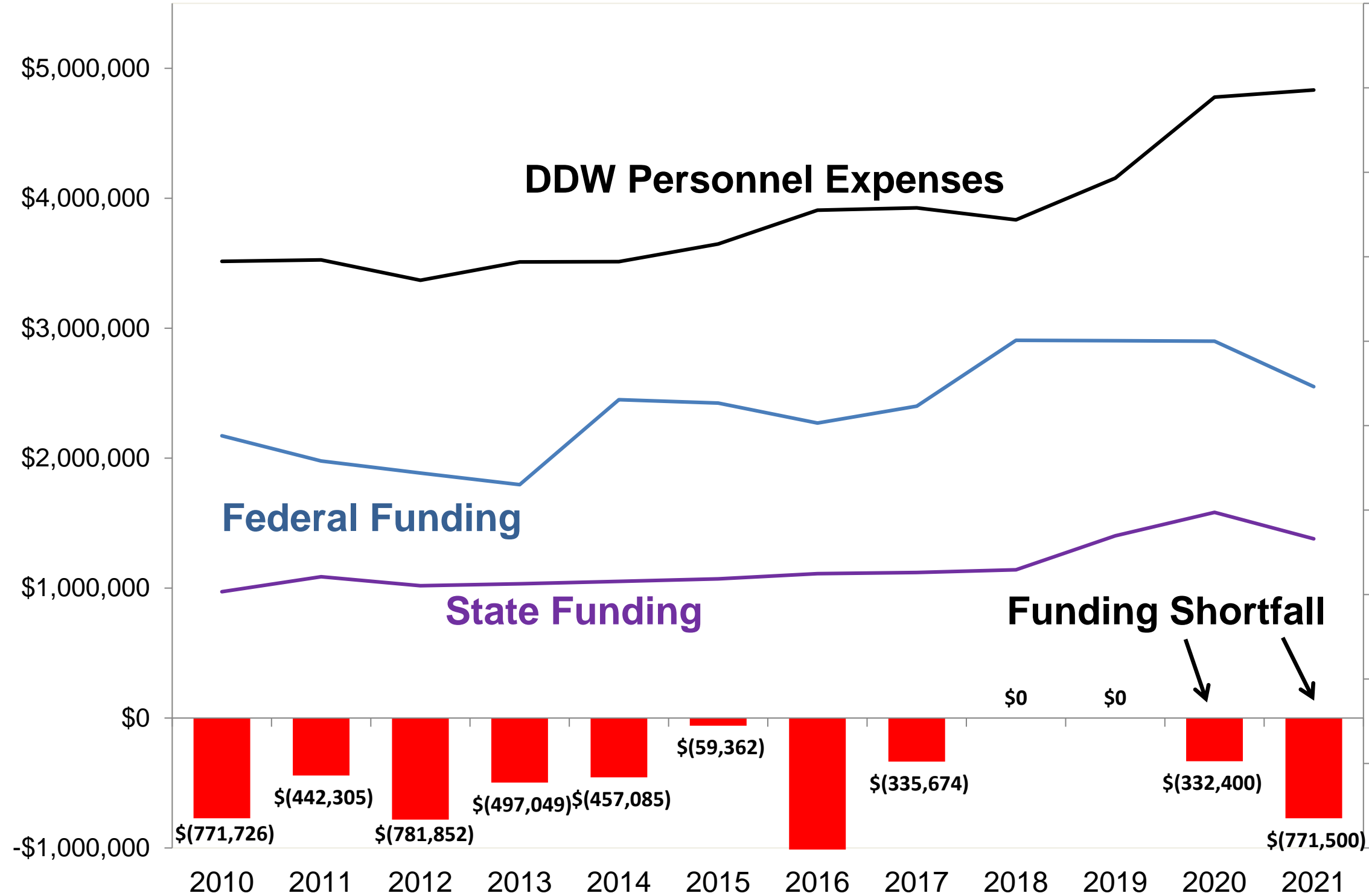
Increased Drinking Water Regulations



Public Water System Increase & DDW FTE Count



Funding Sources and Shortfall



What Are We Facing?



Aging Infrastructure — Examples

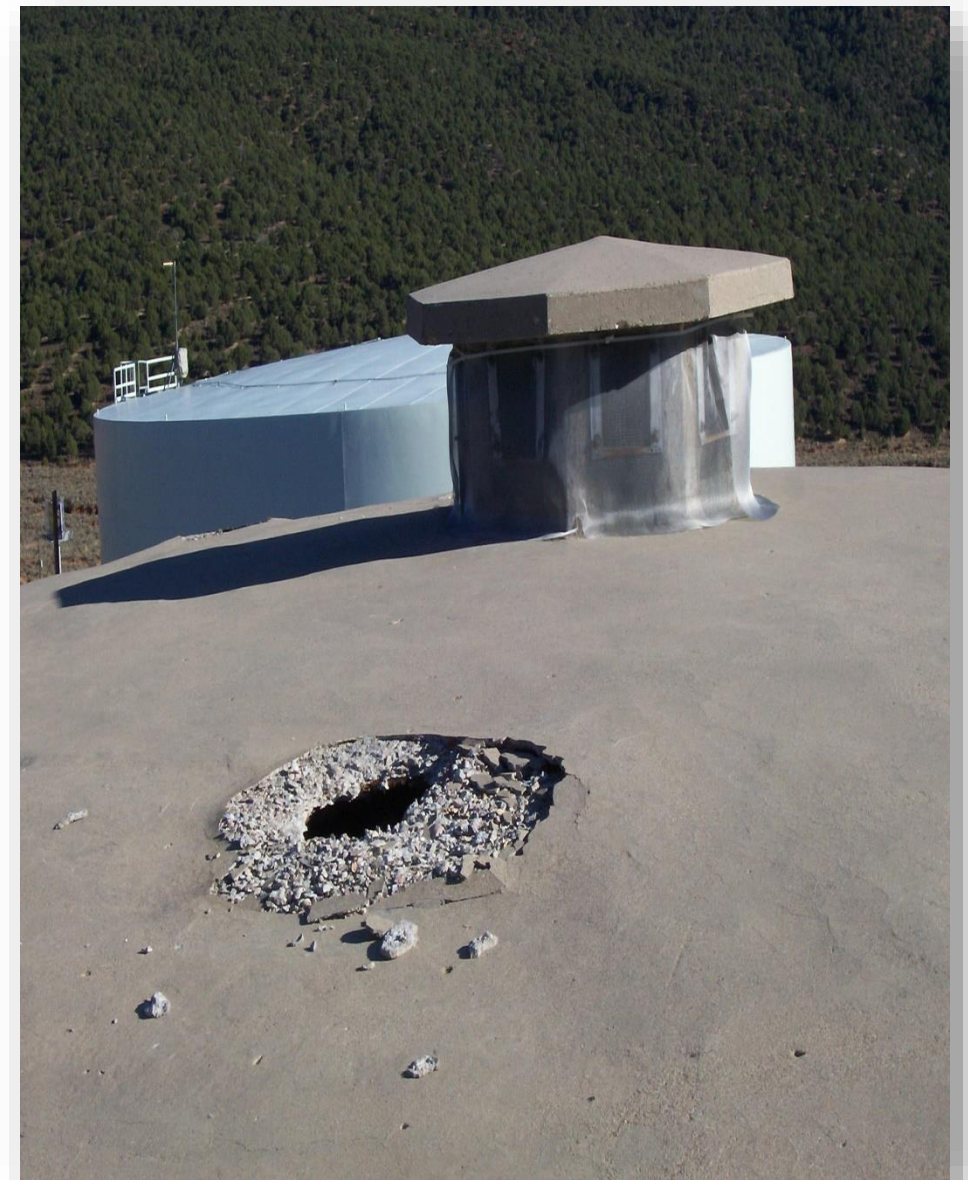


<https://ksltv.com/450392/water-main-breaks-force-outage-in-west-jordan-neighborhood/>



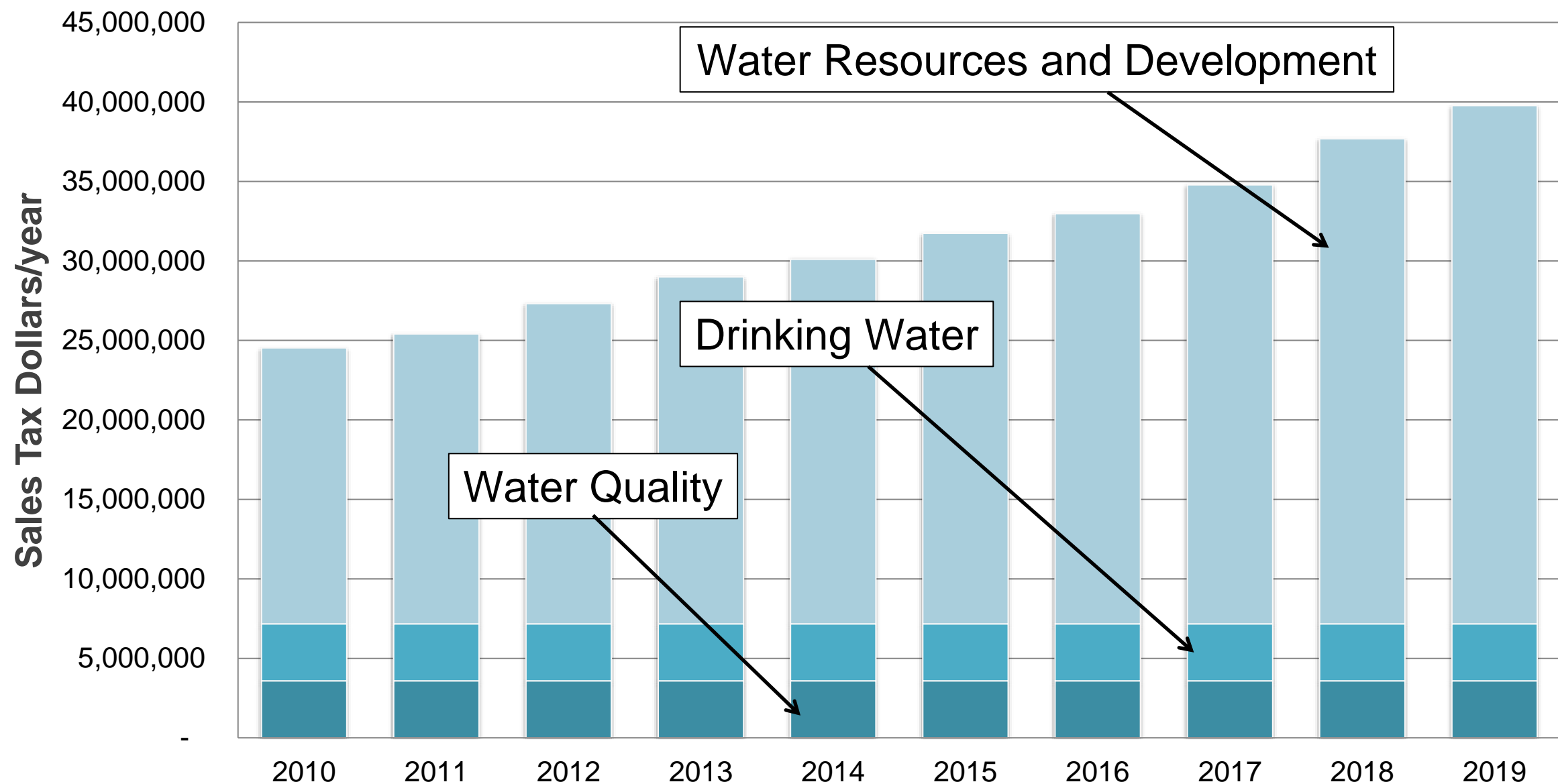
<https://www.ksl.com/article/31849795/major-pipeline-break-in-west-jordan-spills-thousands-of-gallons-of-water>

Water Main Breaks in West Jordan City



Deteriorated Water Storage Tank Found during Inspection in a Southern Utah System

State Water Infrastructure Investment



Consider all water infrastructure needs in planning for growth

Legislative Audit Recommendations

August 2020

1. Utilize enforcement authority to **correct significantly noncompliant water systems**
2. Track and report the time it takes for regulated entities to **reach compliance**
3. Periodically **review water system exceptions** for continued appropriateness



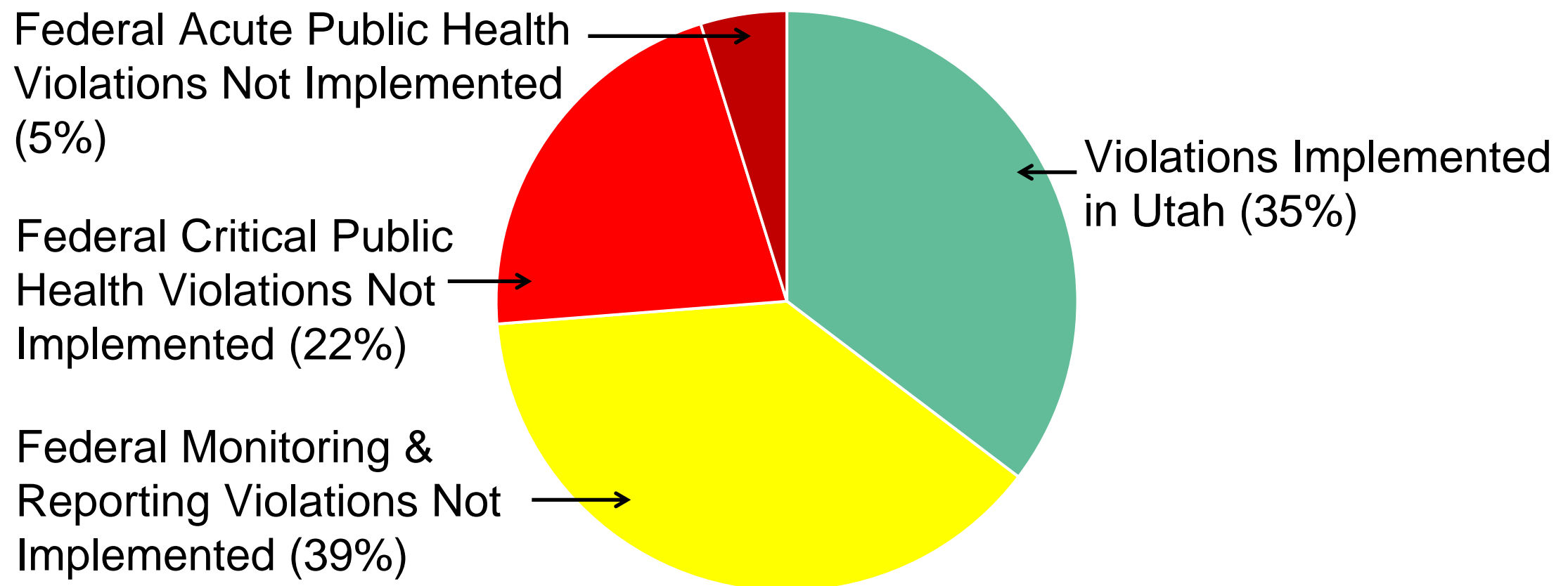
An In-Depth Budget Review of
The Department Environmental Quality

SOURCE: Chapter II page 24 of *An In-Depth Budget Review of the Department of Environmental Quality*, August 2020, Office of the Legislative Auditor General, State of Utah

Implementing Audit Recommendations

Water System Enforcement & Compliance

- **Improve Enforcement & Compliance Capacity (\$445,000)**
 - Increase Staffing for Water System Deficiency and Violation Resolution
 - Improve Process Efficiency & Level of Services to Water Systems
- **Automated Tracking and Electronic Notification to Systems (\$300,000)**



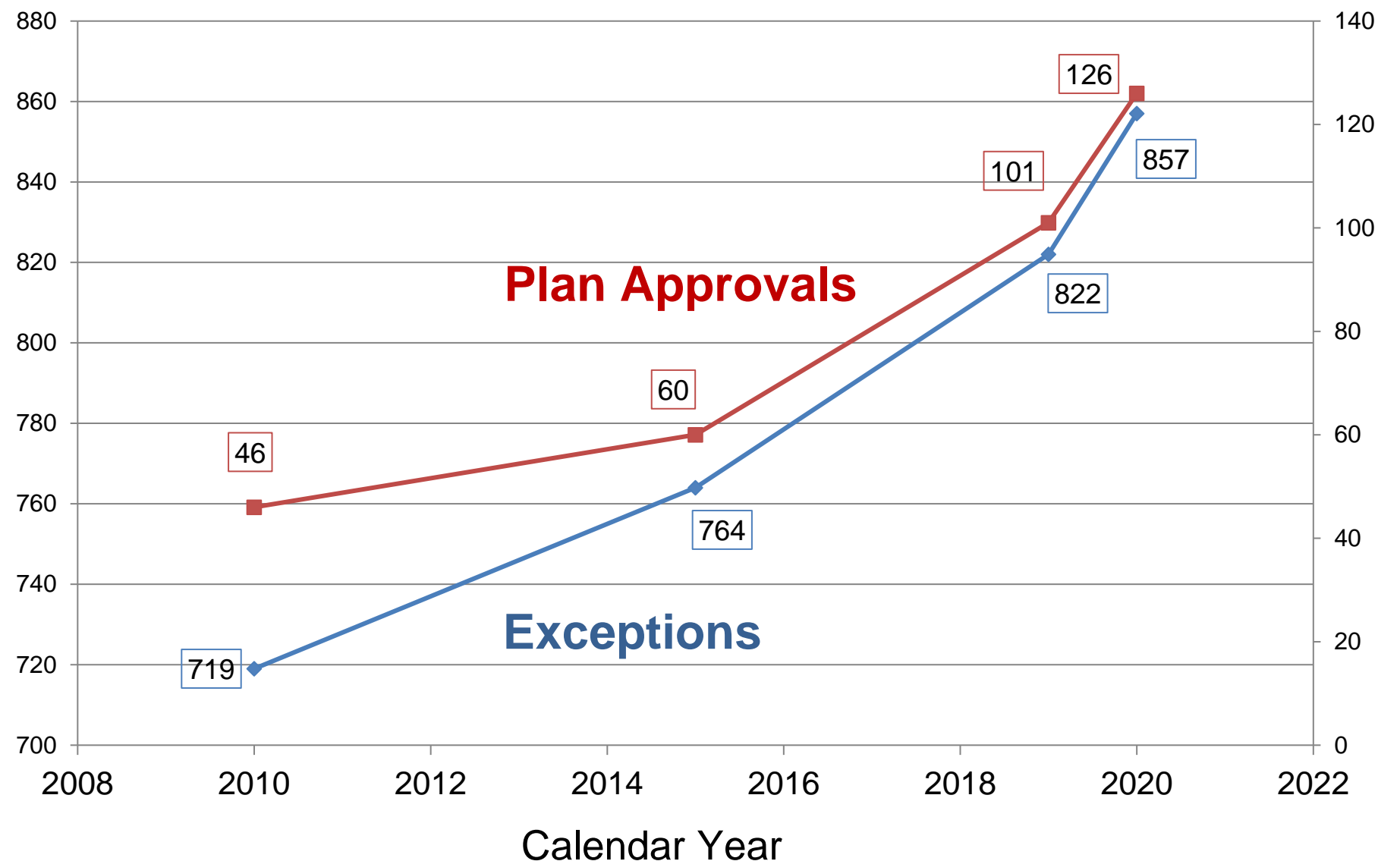
Implementing Audit Recommendations

Drinking Water Facility Exception Tracking

- **Improve Permitting Process (\$240,000)**

- Staffing for Exception Review & Tracking
- Improve Efficiency & Process

Increasing Permitting Workload



Implementing Audit Recommendations

Increase Level of Service to Water Systems

- **Technical Assistance & Fee Schedule (\$514,000)**

- Technical assistance, outreach training, and inspections
- Assist water systems in timely compliance resolution, incident and emergency response
- Engage stakeholders to develop a fee schedule



Inspections of water tank vent and treatment facility

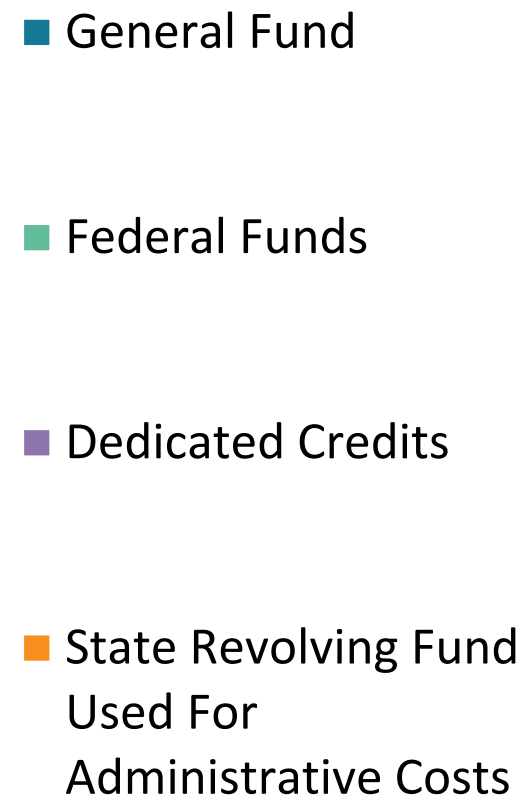
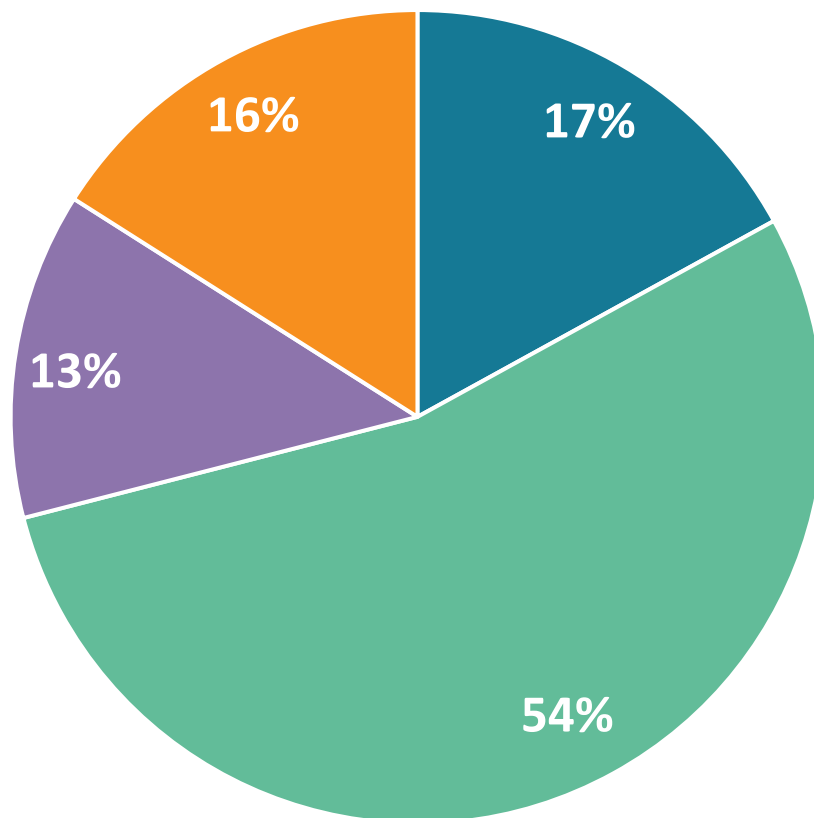


Rebalance & Diversify Revenue

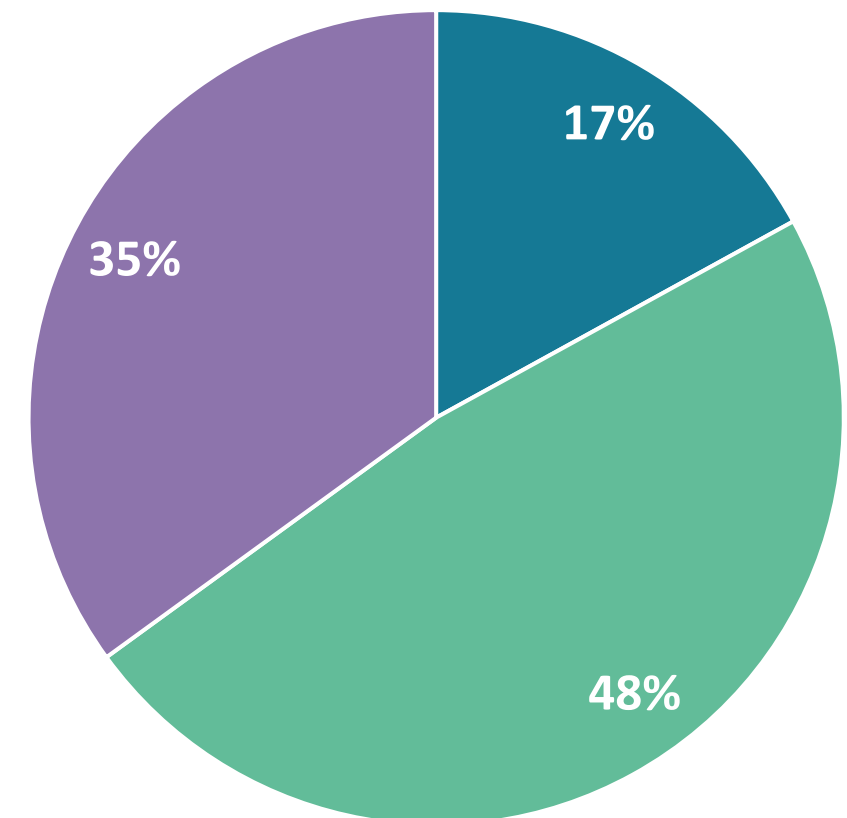
\$4,500,000 One-Time Funding

- Temporary influx to improve service and optimize efficiency
- Create revenue stability tied to Utah's growth by incorporating user-pay strategy

Current Budget



3-Year Goal



Safe and Sustainable Drinking Water

- Invest to improve service to regulated community & the public
- Have a sustainable funding mechanism in place to better protect drinking water and public health



Division of Drinking Water

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